

**To:** Gravatt, Dan[Gravatt.Dan@epa.gov]  
**From:** Hooper, Charles A.  
**Sent:** Thur 5/22/2014 2:56:10 PM  
**Subject:** FW: West Lake Off-Site Air Monitoring Investigaiton Levels for Rad Parameters (DRAFT FOR DISCUSSION)  
2002 - Occupational exposure limits, access restrictions, and posting requirements for airborne radioactive materials.pdf  
ATSDR WLLS - Summary of Radiological Sampling and Investigation Levels\_DRAFT FOR DISCUSSION\_RM\_2014\_05\_19.xlsx

.....  
Dan,

One of Paul's comments in the feedback for the air monitoring yellow/red limits is for radon. He recommends incorporating the radon flux limit (20 pCi/m<sup>2</sup>-sec), of course this is a standard for radon coming off surface soil, and not an air limit exactly, but it does bring up the fact that the old 2000 RI found the Area 2 average to be above 20.

So, I'm not real sure how to respond back to his recommendation. Take a look and maybe we need to discuss more later.

-Chuck

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**From:** Charp, Paul (ATSDR/DCHI/EB) [mailto:pac4@cdc.gov]  
**Sent:** Tuesday, May 20, 2014 10:07 AM  
**To:** 'Monnig, Rob'; Dempsey, Gregg D.; Telofski, Scott  
**Cc:** Johnson, James; Hooper, Charles A.; Gravatt, Dan; Beringer, Mike; Rosnick, Reid  
**Subject:** RE: West Lake Off-Site Air Monitoring Investigaiton Levels for Rad Parameters (DRAFT FOR DISCUSSION)

My comments are attached. I have also attached a document from OSHA regarding Rn exposure limits since the landfill operation pertains to workers.

I also ran a few RESRAD models using some recent soil results and few site specific parameters.

Based on those modeled results, the only apparent issue is the gamma exposure.

On another issue, besides using the EPA PAG derived values, you may also be able to compare the action levels in the spreadsheet to those estimated by the Operational Guidelines Task Force which supplements the PAG and FRMAC approaches to RDD releases.

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**From:** Monnig, Rob [<mailto:rob.monnig@tetrattech.com>]

**Sent:** Monday, May 19, 2014 3:17 PM

**To:** Dempsey, Gregg D. ([Dempsey.Gregg@epa.gov](mailto:Dempsey.Gregg@epa.gov)); [Telofski.scott@Epa.gov](mailto:Telofski.scott@Epa.gov); Charp, Paul (ATSDR/DCHI/EB)

**Cc:** Johnson, James ([Johnson.James@epa.gov](mailto:Johnson.James@epa.gov)); Hooper, Charles ([Hooper.CharlesA@epa.gov](mailto:Hooper.CharlesA@epa.gov)); [Gravatt.dan@epa.gov](mailto:Gravatt.dan@epa.gov); [Beringer.michael@Epa.gov](mailto:Beringer.michael@Epa.gov); [Rosnick.Reid@epa.gov](mailto:Rosnick.Reid@epa.gov)

**Subject:** West Lake Off-Site Air Monitoring Investigaiton Levels for Rad Parameters (DRAFT FOR DISCUSSION)

Hi All,

Chuck and I would appreciate any comments to the attached draft sampling approach and investigation levels for rad parameters for the off-site air monitoring around West Lake Landfill. Two sets of investigation levels have been proposed—the first is a “yellow level” which would not generally indicate an immediate health concern, but would warrant follow up; and the second set being the “red level” which would warrant an immediate review/response by EPA and other supporting agencies.

Thanks in advance for your suggestions. If you’re able to respond before the long weekend—that would be much appreciated.

Thanks,

Rob

Rob Monnig, PE | Chemical Engineer

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